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DIALOG(R)File 351:DERWENT WPI  
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Alkaline phosphatase bio-technological prodn. - using *Bacillus licheniformis* 41P ZIMET 10911

Patent Assignee: (BIOT-) VE BIOTECHN BERLIN

Author (Inventor): KORN U; LEBENTRAU B

Number of Patents: 001

Patent Family:

CC Number	Kind	Date	Week
DD 266710	A	890412	8937 (Basic)

Priority Data (CC No Date): DD 251784 (830606)

Abstract (Basic): DD 266710

In a new process for the biotechnological prodn. of alkaline phosphatase, the strain *Bacillus licheniformis* 41p (ZIMET 10911; morphological and other characteristics given in the specification) is used.

The composition of the C-, N- and P-sources of the nutrient medium is pref. such that during the phase of intensive alkaline phosphatase accumulation the glucose content of the medium is 0%, the phosphate content is less than 7mM and the NH<sub>4</sub> concentration is not more than 30 mcg/ml. Glucose feeding is pref. carried out during the transitional phase. The fermentation medium is pref. subjected to intensive mixing and the fermentation is pref. carried out at 34-40 deg. C (esp. 37 deg. C).

USE/ADVANTAGE - Alkaline phosphatase is used in clinical diagnostics and in biological and molecular-biological research. High yields of a product with enzymatic activity as high as that of the product obtained from calf intestine. Unlike the *E. coli* previously used for alkaline phosphatase prodn., *Bacillus licheniformis* is toxicologically and pathologically harmless. @ (9pp Dwg.No.0/0)@

Derwent Class: B04; D16;

Int Pat Class: C12N-009/16; C12R-001/10

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